

# MATERIAL SAFETY DATA SHEET



**THORO  
SYSTEM  
PRODUCTS, INC.**

7800 N.W. 38th St.  
Miami, FL 33166  
Phone: (305) 592-2081

Page 1

Form No.: MSDS-67-2  
Date: 12/6/85 (rev.)

## SECTION 1 NAME & HAZARD SUMMARY

Material name:

**ACRYL 60®**

Hazard summary (as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):

Physical Hazards: None

Health Hazards: Based on acrylic emulsion, mild irritant (eye, skin) from direct contact, irritant, nose, throat and lungs from inhalation of spray mists or generated during spray application of Acryl 60® modified cement-based mixes.

Read the entire MSDS for a more thorough evaluation of the hazards.

SECTION 2	INGREDIENTS (CAS Number)	% (wt)	ACGIH	OSHA
			TLV	PEL
	Acrylic polymer in aqueous emulsion (NR)	ca 28 (Solids)	NE	NE
	Ammonia (7664-41-7)	lt 0.15	25ppm 35ppm STEL	50ppm

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications. gt = greater than, lt = less than, ca = approximately

NR=Not required, NE=Not established, STEL=Short Term Exposure Limit

## SECTION 3 PHYSICAL DATA

Boiling Point: 212°F (water) Freezing Point: 32°F (water)

Vapor Pressure (mmHg at 20°C): ≈ 17 (water)

Vapor Density (air = 1): Heavier

pH: 9.2 - 10.0

Specific gravity: 1.02

% Volatile by Volume: ca 72% (water)

Appearance and Odor: Milky white liquid. Water - like consistency. Slight ammonia odor

Solubility in water: Dilutable

## MATERIAL SAFETY DATA SHEET (Cont.)

Form No.: MSDS-67-2

Date: 12/6/85 (re)

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash point (and method): NA (Non-Combustible)

Autoignition temp.: NA

Flammable limits (STP): NA

Extinguishing media:

Non-combustible

Special fire fighting protective equipment:

MSHA/NIOSH approved self-contained breathing apparatus. See next paragraph and Section 5, "Hazardous decomposition products" for further explanation.

Unusual fire and explosion hazards:

Acrylic emulsions will not burn. They may spatter if temperature exceeds boiling point (212°F). Dried polymer films are capable of burning.

## SECTION 5 REACTIVITY DATA

Stability:

Stable

Incompatibility (materials to avoid):

Not applicable.

Hazardous decomposition products:

Thermal decomposition may yield oxides of carbon.

Hazardous polymerization:

Will not occur.

## SECTION 6 HEALTH HAZARD ASSESSMENT

General:

No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on its components.

Ingestion:

Relative to other materials, a single dose of this product is practically non-toxic by ingestion. Based on acute toxicity studies for a number of compositionally similar acrylic emulsions the typical oral LD50(rats):gt 5.0g/kg. This product is approved for incorporation into coatings in contact with potable water (U.S. EPA).

## MATERIAL SAFETY DATA SHEET (Cont.)

Form No.: MSDS-67-2  
Date: 12/6/86 (rev.)

## SECTION 6 HEALTH HAZARD ASSESSMENT (Cont.)

Eye contact:

Direct contact with emulsion may irritate human eyes. In studies of compositionally similar acrylic emulsions, rated as inconsequentially irritating to eyes (rabbit).

Skin contact:

Prolonged or repeated contact may irritate human skin. In skin studies (rabbit) of compositionally similar acrylic emulsions, rated as practically non-irritating.

Skin absorption:

No systemically toxic effects are known to occur in man via absorption of this material through skin. The LD50 dermal (rabbits) is gt 5.0g/kg for compositionally similar acrylic emulsions.

Inhalation:

Inhalation of vapor or mist can cause headache, nausea, and may irritate the nose, throat, or lungs. Monomer vapors may be generated if product is heated during processing operations. See Section 9.

Other effects of overexposure:

No other adverse clinical effects are known to be associated with exposures to this mixture.

First aid procedures:

Remove contaminated clothing and footwear. Wash thoroughly with soap and water.

Skin: If irritation persists or develops contact a physician. Wash clothing and decontaminate footwear before reuse.

Eyes: Flood eyes with copious amounts of water for at least 15 minutes. Contact physician if redness or irritation persists.

Ingestion: Give patient 1-2 glasses of water to drink and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove person to fresh air. If cough or respiratory symptoms develop or persist (irritation of nose, throat or lungs) consult a physician.

## SECTION 7 SPILL OR LEAK PROCEDURES

Steps to be taken in case material is spilled or released:

Keep unnecessary people away. Surfaces may be slippery, use caution. Dike and contain spill with inert material (sand, absorbent, earth, etc.). Transfer liquid to containers for recovery or disposal. Transfer solid diking/absorbent material to separate containers for disposal. Keep spills and runoff out of sewers and bodies of water.

## Disposal Method:

Discarded product is a non-hazardous waste under RCRA criteria (40 CFR, Part 261). However, even small amounts of emulsion will discolor bodies of water. Reuse uncontaminated material when possible. Landfill or incinerate solids and contaminated diking material in accordance with local, state and federal regulations.

Drain containers completely. Empty containers may retain small amounts of residual product. Observe all hazard precautions when handling empty containers. Puncture or otherwise destroy container and dispose of as non-hazardous waste in accordance with local, state and federal regulations.

TLV® or suggested control value:

No TLV assigned to this mixture. Minimize exposure in accordance with good hygiene practice.

Mechanical local ventilation to keep exposure below the OSHA PEL for nuisance dusts or for the appropriate PEL when incorporated into another product (e.g. for silica if used in a material containing silica. See the product's MSDS for information.

Not required if good ventilation is maintained. Use appropriate MSHA/NIOSH respirator when dusts or mists are generated for the types and concentrations of air contaminants encountered.

Impervious gloves, long trousers, longsleeved shirt, and appropriate footwear recommended to avoid skin contact.

Chemical splash goggles (ANSI Z-87.1 or approved equivalent).

Provide eyewash station in workplace.

Precautions to be taken in handling or storing:

Keep from freezing-product may coagulate. If frozen, thaw at room temperature. If solids are coagulated or "crystallized" product is unusable. Keep out of direct sunlight. Residual monomer content present no problem under normal conditions of use, however high levels of monomer vapors can be released into work areas when emulsions are heat dried or cured (ovens, infrared lamp, etc.) if good ventilation is not used.

## MATERIAL SAFETY DATA SHEET (Cont)

Form No.: MSDS-67-2  
Date: 12/6/85 (rev.)

## SECTION 10 MISCELLANEOUS INFORMATION

This product is formulated for use as an admixture (additive) to cement-based coatings, plasters, mortars, patching materials etc. either as supplied or further diluted with water. Its primary function is to enhance the chemical and physical characteristics of the material to which it is added (e.g.) adhesion, compressive, tensile and flexural strengths, chemical resistance, etc.). Acryl 60® presents virtually no physical or health hazards to the user under normal conditions of use, however the user is advised to obtain, read and observe all precautions presented in the Material Safety Data Sheet (MSDS) for the products/materials to which Acryl 60® may be added. Read and follow label directions and technical bulletin number 67 for this product.

The information herein is given in good faith  
but no warranty, expressed or implied, is made.

Prepared by: G.T. Schull

Title: Director of Health, Safety, and Environmental Affairs

Signature: *G. Theodore Schull*

Date: 12/6/85 (rev.)

For Additional Information: Contact the individual listed above at:

Phone: (317) 855-3461

In writing: P.O. Box 127  
Centerville, IN 47330